

IN REPLY

REFER TO: WLO-273-61

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DATE: 12 December 1961

25X1A
TO: [redacted]

SUBJECT: Calibration Standards

25X1A
References: (1) WLO-157-61 Calibration Standards,
17 March 1961
(2) Letter [redacted]
20 November 1961

Gentlemen:

25X1A
Attached as Table I, is a list of instrumentation that will be used [redacted]
[redacted] by AFCS personnel and the calibration period for each. Also, attached
25X1A as Table II, is a suggested list of equipment to perform meter calibration
and repair [redacted]

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We have assumed that facilities for meter calibration and repair would be
available [redacted]. This has been considered in arriving at the
quantity of instrumentation required.

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Table II contains a list of equipment necessary to establish primary and
secondary standards for AC/DC voltage and current, frequency, and phase
angle. The list of equipment suggested by [redacted] has been reviewed
and the additional equipment required has been noted.

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If there is any question regarding this information, please feel free to
call us or contact our local representatives.

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Project Engineer /

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Senior Account Administrator

RLB:dl1

Attachments: Tables I and II

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25X1

Table I

<u>Quantity</u>	<u>Item</u>	<u>Calibration Required</u>
4	Multimeters (Simpson 260 or equivalent)	6 months
2	Oscilloscopes (Tektronix & Dumont) (3%)	3 months
1	Servoscope 1100D	3 months
2	VTVM Hewlett Packard 400H or equivalent (1%)	3 months
2	VTVM Hewlett Packard 412A or equivalent (1%)	3 months
1	Phase Angle Meter (North Atlantic) (2%)	3 months
1	Sanborn Recorder and Plug Ins (5%)	3 months
1	Heatstone Bridge	8 months
2	Variacs (Operational check only)	12 months
1	Rate Table (Operational check only)	6 months
1	Pressure Station (Cleaning and operational check only)	1 month
1	Frequency Meter 400~	6 months
1	North Atlantic Ratio Box 504	12 months
1	Tube Tester (Operational check only)	12 months

Table II

DC Voltage Calibration				Estimated Cost
1	Fluke	Model 406	DC Power	\$ 300
1	Rubicon	Model 2781	Potentiometer	700
1	Rubicon	Model 2797	Volt Box	235
1	Rubicon	Model 3111	Galvanometer	150
3	Rubicon	Model 2775	Standard Cells	100
			Storage Battery	36
AC Voltage Calibration				
1	Rubicon	Model 393	AC/DC Transfer Standard	650
1	Hewlett-Packard	Model 200CD	Wide Range Oscillator	200
1	McIntosh	Model 60	Modified Power Amplifier	275
**1	Sorenson #		Regulator	
AC/DC Secondary Standard				
1	Fluke	Model 803	Differential Voltmeter	900
Frequency Calibration				
**1			(WWV) Communications Receiver	
1	Berkeley	Model 7370	Input Meter	2,000
Current Standards				
**1ea. ROSA NBS Type Standard Resistors 1 Ω , 10 Ω , 100 Ω , 1K Ω				45 ea.
**1	REICHSTANZALT type Resistor	0.1 Ω		100
Phase Angle				
**1	Low Dissipation .001 uf Capacitor			50

**Needed if AC power is not stable

**Indicates equipment not contained in Reference #2.